

1 428 Rec'd PCT/PTO 14 JAN 2000

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) COHEN, Daniel
- (B) BLUMENFELD, Marta
- (C) TCHOUMAKOV, Ilia

(ii) TITLE OF INVENTION: Biallelic markers for use in constructing a high density disequilibrium map of the human genome.

(iii) NUMBER OF SEQUENCES: 336

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy Disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: Win95
- (D) SOFTWARE: Word

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2103-270
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2103-270
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2103-270
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CTTGGATTCA TATGAGACAG CTAGCAGACC TTCAATTTT CTACACT

47

(2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2228-301
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base a
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2228-301
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2228-301
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

CCCTGCTTAT CCCTGTAAGG TGGAGACCCA TATGGGCAAG GCCAGAC

47

(2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2229-240
 - (B) LOCATION: 1..47

- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2229-240
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2229-240
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TCGTCATCGT GGCCTGGGCT ACAGACTACC TGTTCCAGTC CTTCCAG

47

(2) INFORMATION FOR SEQ ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2240-281
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2240-281
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2240-281
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GCAATCTTAA TAACTTTTA TTTCAGTAAT TCGAATCTT TTTTTCT

47

(2) INFORMATION FOR SEQ ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2242-206
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2242-206
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2242-206
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GTGTTTCTT TTAGTCAAAT TATCTTATAT TTTACTTTT TCTTAAG

47

(2) INFORMATION FOR SEQ ID NO: 6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2244-83
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base

(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2244-83
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2244-83
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

TAATTGTAGA TACTAAGACC ATTATGCTTA AACCATGTAG GTACTGA

47

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2246-340
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2246-340
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2246-340
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

ATTTATATGT TAAATGCAGA GAAAAAGAAA AATAAGTTT GCAGTAA

47

(2) INFORMATION FOR SEQ ID NO: 8:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2248-76
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2248-76
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2248-76
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

GACAGAGAGG GAAGGTAATC TTCCCCCTGAA GTCTGCCCAT CCCCTGG

47

(2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2250-236
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2250-236
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2250-236
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

ATGTATCCAA AACAGAATTACACACTTG GGTTTTTAT TTTTATT

47

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2251-151
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2251-151
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2251-151
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

TGAAAAGAAG TTCAGACGAT TGCAGATAGA CTAGTTGGC TGTTGTG

47

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2269-179
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2269-179
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2269-179
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AAAATAAAAGA AATTCCCTAGA GACATACAGC CTATCAAGAT CAAACCA

47

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2271-403
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2271-403
(B) LOCATION: 1..23

09453025044600

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2271-403
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

AGGCATTTAT TTCATATTAA TTAACCTTGA TTTTCTTATC TTCAAGT

47

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2272-409
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2272-409
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2272-409
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

AAAAGCACTG CAATTATTT GGAGACTGTG AAATATTGCA AGTTTA

47

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2273-528
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2273-528
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2273-528
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

ACTTGAAAGAT AAGAAAATCA AGGCTAATAA ATATGAAATA AATGCCT

47

(2) INFORMATION FOR SEQ ID NO: 15:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2275-466
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2275-466
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2275-466

(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

TTGATGATAG CATTAAATAC TCCCAAAAAC TGTGAATAGG GATACTA

47

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2278-276
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2278-276
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2278-276
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GAAAAAAATG GGAACATCTT CACAGCCTGT GCATCTCAA CAAGATT

47

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

09463025 09463025

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2312-358
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2312-358
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2312-358
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

TTGAAGAGAG AGATGGAAAA AAACGTTAGGC CTTCTGGGTA AATGGCC

47

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2315-213
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2315-213
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2315-213
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

AGATGGATTCTACCCACAGG CAAAAGAAAA CCTTATTTA AAAATAA

47

(2) INFORMATION FOR SEQ ID NO: 19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2320-292
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2320-292
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2320-292
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

ACTCTCATTC ACTAAACTTC AACCGTTTT ATAAATTTAA TGAATT

47

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2321-82
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2321-82
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2321-82
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

TAAAGCTTAC TGAGTGTCCA CTCCGGATAC CTACTCAAAT ATTCCT

47

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2324-338
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2324-338
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2324-338
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

AGATAGAAGA CAAAATCGCA GGAAAAGAAA TCCCTCAACA GTAAAAAA

47

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2333-423
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2333-423
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2333-423
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GAGACGCTAT CTATGCAAGG AGGGTGTCA ACATTTGGAC AGCCACG

47

(2) INFORMATION FOR SEQ ID NO: 23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2341-485
- (B) LOCATION: 1..47

- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2341-485
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2341-485
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

ACACATCTGT CTGTTACCTA CACCTTACAA AGAATCGCAC AGGCTCT

47

(2) INFORMATION FOR SEQ ID NO: 24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2342-217
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2342-217
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2342-217
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TAGAGCCTTG GACTTTCATG ACAC TTCTAG AAACAGCCCA GATTGTG

47

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2362-270
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2362-270
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2362-270
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

TCTCTCTTGG GTGGTTCCCTC AACATGTGTG ACCTTGACCA AGTATTG

47

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2364-329
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24

09463025-004.1480

(D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2364-329
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2364-329
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

ATATAAAATG ATGAACCATA TACGTGAGGC AAGGTAACAT ATAATTG

47

(2) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2367-61
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2367-61
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2367-61
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

TAAACATTTC ATTATTTCAAG AAAATAATAT GCATTTCAC CAACACA

47

(2) INFORMATION FOR SEQ ID NO: 28:

(i) SEQUENCE CHARACTERISTICS:

09/16/2007 09:41:00

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2371-93
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2371-93
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2371-93
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

CTCTAAACTT TCCTAATACT TACATCACTG CCTACTTTT ACATAAT

47

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2378-200
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2378-200
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2378-200
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GAGAACTTCC TGTGAAACCT GTTATAGAAC TGTCTGTG TCCAAGA

47

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2381-394
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2381-394
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2381-394
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

AGTGGTCTTC AGGTTATTGG TAGAGAAAAG TAGGGGAGCT AAAGGTG

47

(2) INFORMATION FOR SEQ ID NO: 31:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2413-368
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2413-368
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2413-368
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

ATTTTAAGAG GAAAACCTAA TGGAAGAATT GTACATAATA TTTCATT

47

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2419-285
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2419-285
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2419-285
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

AAGGGATCAA GCAGTGCCCC CTCCCCACCC TCCAGGGAGC TGTGACT

47

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2559-253
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2559-253
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2559-253
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

CAGGTGTTT CATGCCCTCT TAGGGTGTGT CACATCATCC ATCTCAA

47

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2566-112
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2566-112
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2566-112
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GCCTTCACAA CCGCAGAGGC AAGAGAAGGA GCTTGGCCAC CCTGACT

47

(2) INFORMATION FOR SEQ ID NO: 35:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2567-329
(B) LOCATION: 1..47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2567-329
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2567-329
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

CACTGTCAGA TATGAAATGA TGCGTGGCTT TCTTTGGGCT ATATTG

47

(2) INFORMATION FOR SEQ ID NO: 36:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2570-218
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2570-218
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2570-218
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

GGAAAGTTCC AAATTATGAG AAGCGAGGCC TCTGAAGTGG CTAAGTT

47

(2) INFORMATION FOR SEQ ID NO: 37:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2571-242
(B) LOCATION: 1..47

(ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2571-242
(B) LOCATION: 1..23

(ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2571-242
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

ATAATGAATG AGTATTTGAT ATTATATAAT TAAATGTGTC AGCATT

47

(2) INFORMATION FOR SEQ ID NO: 38:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2610-121
(B) LOCATION: 1..47

(ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2610-121
(B) LOCATION: 1..23

(ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2610-121
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

SEQUENCE DESCRIPTION

ATACCCCTTC CCTAGGTATG GCTATATGCT GCACCTAGAA AATTCTC

47

(2) INFORMATION FOR SEQ ID NO: 39:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2615-83
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2615-83
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2615-83
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

AACAAATCAC AAGTTGGCAA AAGCAGCAA TTCTCATCTT CTGGGAA

47

(2) INFORMATION FOR SEQ ID NO: 40:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2620-227

(B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2620-227
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2620-227
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

TTGACTGGGC TCCTGATGTG TCCAGGGTAT CTTGCTGGCT GTTTGC

47

(2) INFORMATION FOR SEQ ID NO: 41:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 44 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2624-407
- (B) LOCATION: 1..44

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2624-407
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2624-407
- (B) LOCATION: complement 25..44

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

ATCTGGCCAT AGGCAGAAC A TTGGGGGAGA GATGGGGAAA GAGA

44

(2) INFORMATION FOR SEQ ID NO: 42:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2625-70
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base a
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2625-70
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2625-70
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

AGTGACTCAA CCAGAAAGAG AGCAGGAGAG AGGACGAAGA GAGGAGA

47

(2) INFORMATION FOR SEQ ID NO: 43:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2630-67
 - (B) LOCATION: 1..47
- (ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2630-67
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2630-67
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

TAAATTCTGC CTAGAACGATT AAGATTGGTC CAGAACACAGGG AGTGT

47

(2) INFORMATION FOR SEQ ID NO: 44:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2633-129
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2633-129
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2633-129
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

TAGCTATTTC TTCCCCCTAGG CAAAGTAGAC AATGAGAGAA CCCTTGA

47

(2) INFORMATION FOR SEQ ID NO: 45:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2634-341
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base a
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2634-341
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2634-341
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

GGAATCAATA TTTATTTATT ATCAACAGGT GAGACATTAT TTATTAA

47

(2) INFORMATION FOR SEQ ID NO: 46:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2637-28
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2637-28
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2637-28
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

CCATCACTTC CTCCTAGTGA AAAATCAAAG GAGGGTGGGT TTTATAG

47

(2) INFORMATION FOR SEQ ID NO: 47:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2642-255
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2642-255
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2642-255
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

TGAGGGTGTGTT TCCAGAAAGAG ACTAGCATTG GAATCTGAAG TGAGTAA

47

(2) INFORMATION FOR SEQ ID NO: 48:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs

(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2645-118
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2645-118
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2645-118
(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

CACAAATTAA TTGCATTGTT ATAGGCTAGC AATGAAGAAT CTGAAAA

47

(2) INFORMATION FOR SEQ ID NO: 49:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2647-368
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2647-368

(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2647-368
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

TTAAGGCCTT CAACTGATTA GACAAGGCC ACTCACATTA TCTGACA

47

(2) INFORMATION FOR SEQ ID NO: 50:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2649-107
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2649-107
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2649-107
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

CACAACTCTG GAGCCTTTA TGAACAGGAC AGCAATGCAC TGAAACT

47

(2) INFORMATION FOR SEQ ID NO: 51:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2103-270
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID1
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c; g in SEQ ID1
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2103-270
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2103-270
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

CTTGGATTCA TATGAGACAG CTACCAAGACC TTCAATTCTT CTACACT

47

(2) INFORMATION FOR SEQ ID NO: 52:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2228-301
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID2
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID2
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2228-301
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2228-301
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

CCCTGCTTAT CCCTGTAAGG TGGGGACCCA TATGGGCAAG GCCAGAC

47

(2) INFORMATION FOR SEQ ID NO: 53:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2229-240
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID3

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; g in SEQ ID3

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2229-240
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2229-240
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

TCGTCACTCGT GGCTGGGCT ACATACTACC TGTTCCAGTC CTTCCAG

47

(2) INFORMATION FOR SEQ ID NO: 54:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2240-281
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID4
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID4
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2240-281
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2240-281
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

GCAATCTTAA TAACTTTTA TTTTAGTAAT TCGAATCTTT TTTTTCT

47

(2) INFORMATION FOR SEQ ID NO: 55:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2242-206
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID5
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID5
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2242-206
 - (B) LOCATION: 1..23

09463075-DRAFTED

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2242-206
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

GTGTTTCTT TTAGTCAAAT TATTTATAT TTTACTTTT TCTTAAG

47

(2) INFORMATION FOR SEQ ID NO: 56:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2244-83
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID6

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID6

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2244-83
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2244-83
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

TAATTGTAGA TACTAAGACC ATTGTGCTTA AACCATGTAG GTACTGA

47

(2) INFORMATION FOR SEQ ID NO: 57:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2246-340
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID7
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID7
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2246-340
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2246-340
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

ATTTATATCT TAAATGCAGA GAAGAAGAAA AATAAGTTT GCAGTAA

47

(2) INFORMATION FOR SEQ ID NO: 58:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2248-76
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID8
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID8
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2248-76
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2248-76
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GACAGAGAGG GAAGGTAATC TTCTCCTGAA GTCTGCCCAT CCCCTGG

47

(2) INFORMATION FOR SEQ ID NO: 59:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2250-236
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID9

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID9

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2250-236
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2250-236
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

ATGTATCCAA AACAGAATTACATACTTG GGTTTTTAT TTTTATT

47

(2) INFORMATION FOR SEQ ID NO: 60:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2251-151
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID10
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID10
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2251-151
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2251-151
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

TGAAAAGAAC TTCAGACGAT TGCAGATAGA CTAGTTGGC TGTTGTG

47

(2) INFORMATION FOR SEQ ID NO: 61:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2269-179
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID11
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID11
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2269-179
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2269-179
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

AAAATAAAAGA AATTCCCTAGA GACGTACAGC CTATCAAGAT CAAACCA

47

(2) INFORMATION FOR SEQ ID NO: 62:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2271-403
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID12

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID12

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2271-403
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2271-403
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

AGGCATTTAT TTCATATTAA TTAGCCTTGA TTTTCTTATC TTCAAGT

47

(2) INFORMATION FOR SEQ ID NO: 63:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2272-409
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID13
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; g in SEQ ID13
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2272-409
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2272-409
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

AAAAGCACTG CAATTATTTT GGATACTGTG AAATATTGCA AGTTTTA

47

(2) INFORMATION FOR SEQ ID NO: 64:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2273-528
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID14
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID14
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2273-528
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2273-528
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

ACTTGAAAGAT AAGAAAATCA AGGTTAATAA ATATGAAATA AATGCCT

47

(2) INFORMATION FOR SEQ ID NO: 65:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2275-466
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID15

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID15

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2275-466
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2275-466
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

TTGATGATAG CATTAAATAC TCCTAAAAAC TGTGAATAGG GATACTA

47

(2) INFORMATION FOR SEQ ID NO: 66:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2278-276

(B) LOCATION: 1..47

(D) OTHER INFORMATION: variant version of SEQ ID16

(ix) FEATURE:

(A) NAME/KEY: polymorphic base

(B) LOCATION: 24

(D) OTHER INFORMATION: base g; a in SEQ ID16

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2278-276

(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2278-276

(B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

GAAAAAAATG GGAACATCTT CACGGCCTGT GCATCTCCAA CAAGATT

47

(2) INFORMATION FOR SEQ ID NO: 67:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 47 base pairs

(B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-2312-358

(B) LOCATION: 1..47

(D) OTHER INFORMATION: variant version of SEQ ID17

(ix) FEATURE:

(A) NAME/KEY: polymorphic base

(B) LOCATION: 24

(D) OTHER INFORMATION: base t; c in SEQ ID17

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-2312-358

(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2312-358
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

TTGAAGAGAG AGATGGAAAA AAATGTAGGC CTTCTGGGTA AATGGCC

47

(2) INFORMATION FOR SEQ ID NO: 68:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2315-213
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID18

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID18

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2315-213
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2315-213
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

AGATGGATTACACAGG CAAGAGAAAA CCTTATTTAA AAAATAA

47

(2) INFORMATION FOR SEQ ID NO: 69:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2320-292
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID19
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID19
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2320-292
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2320-292
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

ACTCTCATTC ACTAAACTTC AACTGTTTT ATAAATTAA TGAATT

47

(2) INFORMATION FOR SEQ ID NO: 70:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2321-82
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID20
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; c in SEQ ID20
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2321-82
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2321-82
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

TAAAGCTTAC TGAGTGTCCA CTCTGGATAC CTACTCAAAT ATTTCCCT

47

(2) INFORMATION FOR SEQ ID NO: 71:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2324-338
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID21

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c; a in SEQ ID21

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2324-338
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2324-338
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

AGATAGAAGA CAAAATCGCA GGACAAGAAA TCCCTCAACA GTAAAAA

47

(2) INFORMATION FOR SEQ ID NO: 72:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (iii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2333-423
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID22
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base t; g in SEQ ID22
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2333-423
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2333-423
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

GAGACGCTAT CTATGCAAGG AGGTTGTTCA ACATTTGGAC AGCCACG

47

(2) INFORMATION FOR SEQ ID NO: 73:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2341-485
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID23
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base t; c in SEQ ID23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2341-485
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2341-485
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

ACACATCTGT CTGTTACCTA CACTTACAA AGAACGCAC AGGCTCT

47

(2) INFORMATION FOR SEQ ID NO: 74:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2342-217
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID24

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID24

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2342-217
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2342-217
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:

TAGAGCCTTG GACTTCATG ACATTTCTAG AAACAGCCCCA GATTGTG

47

(2) INFORMATION FOR SEQ ID NO: 75:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2362-270
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID25
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID25
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2362-270
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2362-270
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

TCTCTTTGG GTGGTTCCTC AACGTGTGTG ACCTTGACCA AGTATTG

47

(2) INFORMATION FOR SEQ ID NO: 76:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2364-329
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID26
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c; g in SEQ ID26
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2364-329
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2364-329
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

ATATAAAATG ATGAACCATA TACCTGAGGC AAGGTAACAT ATAATTG

47

(2) INFORMATION FOR SEQ ID NO: 77:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2367-61
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID27

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID27

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2367-61
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2367-61
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

TAAACATTTC ATTATTTCAAG AAAGTAATAT GCATTTCAC CAACACA

47

(2) INFORMATION FOR SEQ ID NO: 78:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2371-93
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID28
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c; a in SEQ ID28
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2371-93
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2371-93
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

CTCTAAACTT TCCTAATACT TACCTCACTG CCTACTTTT ACATAAT

47

(2) INFORMATION FOR SEQ ID NO: 79:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2378-200
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID29
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID29
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2378-200
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2378-200
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

GAGAACTTCC TGTTAACCT GTTGAGAAC TGTCTGTCG TCCAAGA

47

(2) INFORMATION FOR SEQ ID NO: 80:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2381-394
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID30

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID30

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2381-394
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2381-394
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

AGTGGTCTTC AGGTTATTGG TAGGGAAAAG TAGGGGAGCT AAAGGTG

47

(2) INFORMATION FOR SEQ ID NO: 81:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2413-368
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID31
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID31
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2413-368
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2413-368
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

ATTTTAAGAG GAAAACCTAA TGGGAGAATT GTACATAATA TTTCATT

47

(2) INFORMATION FOR SEQ ID NO: 82:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2419-285
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID32
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base t; c in SEQ ID32
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2419-285
(B) LOCATION: 1..23

DOCUMENT EDITION: DRAFT

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2419-285
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

AAGGGATCAA GCAGTGCCCA CTCTCCACCC TCCAGGGAGC TGTGACT

47

(2) INFORMATION FOR SEQ ID NO: 83:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2559-253
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID33

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; g in SEQ ID33

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2559-253
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2559-253
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

CAGGTGTTT CATGCCCTCT TAGTGTGTGT CACATCATCC ATCTCAA

47

(2) INFORMATION FOR SEQ ID NO: 84:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2566-112
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID34
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID34
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2566-112
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2566-112
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

GCCTTCACAA CCGCAGAGGC AAGGGAAGGA GCTTGGCCAC CCTGACT

47

(2) INFORMATION FOR SEQ ID NO: 85:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2567-329
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID35
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t; g in SEQ ID35
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2567-329
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2567-329
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

CACTGTCAGA TATGAAATGA TGCTTGGCTT TCTTTGGGCT ATATTTG

47

(2) INFORMATION FOR SEQ ID NO: 86:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2570-218
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID36

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID36

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2570-218
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2570-218
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

GGAAAGTTCC AAATTATGAG AAGTGAGGCC TCTGAAGTGG CTAAGTT

47

(2) INFORMATION FOR SEQ ID NO: 87:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2571-242
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID37
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID37
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2571-242
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2571-242
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

ATAATGAATG AGTATTTGAT ATTGTATAAT TAAATGTGTC AGCATT

47

(2) INFORMATION FOR SEQ ID NO: 88:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2610-121
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID38
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c; a in SEQ ID38
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2610-121
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2610-121
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

ATACCCCTTC CCTAGGTATG GCTCTATGCT GCACTTAGAA AATTCTC

47

(2) INFORMATION FOR SEQ ID NO: 89:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2615-83
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID39

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID39

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2615-83
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2615-83
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

AACAAATCAC AAGTTGGCAA AAGTAGCAAA TTCTCATCTT CTGGGAA

47

(2) INFORMATION FOR SEQ ID NO: 90:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2620-227
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID40
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID40
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2620-227
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2620-227
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

TTGACTGGGC TCCTGATGTG TCCGGGGTAT CTTGCTGGCT GTTTTGC

47

(2) INFORMATION FOR SEQ ID NO: 91:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 44 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2624-407
(B) LOCATION: 1..44
(D) OTHER INFORMATION: variant version of SEQ ID41
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base t; g in SEQ ID41
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2624-407
(B) LOCATION: 1..23

09453025 - 041400

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2624-407
- (B) LOCATION: complement 25..44

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

ATCTGGCCAT AGGCAGAAC A TTGTGGGAGA GATGGGGAAA GAGA

44

(2) INFORMATION FOR SEQ ID NO: 92:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2625-70
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID42

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID42

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2625-70
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2625-70
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

AGTGACTCAA CCAGAAAGAG AGCGGGAGAG AGGACGAAGA GAGGAGA

47

(2) INFORMATION FOR SEQ ID NO: 93:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2630-67
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID43
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g; a in SEQ ID43
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2630-67
 - (B) LOCATION: 1..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2630-67
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

TAAATTCTGC CTAGAACGATT AAGGTTGGTC CAGAACAGGG AGTGT

47

(2) INFORMATION FOR SEQ ID NO: 94:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-2633-129
 - (B) LOCATION: 1..47
 - (D) OTHER INFORMATION: variant version of SEQ ID44
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base c; a in SEQ ID44
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-2633-129
 - (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2633-129
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

TAGCTATTC TTCCCCTAGG CAACGTAGAC AATGAGAGAA CCCTTGA

47

(2) INFORMATION FOR SEQ ID NO: 95:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2634-341
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID45

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID45 ,

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2634-341
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2634-341
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

GGAATCAATA TTTATTATT ATCGACAGGT GAGACATTAT TTATTTA

47

(2) INFORMATION FOR SEQ ID NO: 96:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2637-28
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID46
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID46
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2637-28
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2637-28
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

CCATCACTTC CTCCTAGTGA AAAGTCAAAG GAGGGTGGGT TTTATAG

47

(2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2642-255
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID47
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID47
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2642-255
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2642-255
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

TGAGGGTGTT TCCAGAAGAG ACTGGCATT GAATCTGAAG TGAGTAA

47

(2) INFORMATION FOR SEQ ID NO: 98:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2645-118
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID48

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; g in SEQ ID48

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2645-118
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2645-118
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

CACAAATTAA TTGCATTGTT ATATGCTAGC AATGAAGAAT CTGAAAA

47

(2) INFORMATION FOR SEQ ID NO: 99:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2647-368
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID49
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base g; a in SEQ ID49
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2647-368
(B) LOCATION: 1..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2647-368
(B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

TTAAGGCCTT CAACTGATTA GACGAGGCC ACTCACATTA TCTGACA

47

(2) INFORMATION FOR SEQ ID NO: 100:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2649-107
(B) LOCATION: 1..47
(D) OTHER INFORMATION: variant version of SEQ ID50
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base t; a in SEQ ID50
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-2649-107
(B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2649-107
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

CACAACTCTG GAGCCTTTA TGATCAGGAC AGCAATGCAC TGAAACT

47

(2) INFORMATION FOR SEQ ID NO: 101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(iii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID1, SEQ ID51
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

CCTGGATTCT GACCCATC

18

(2) INFORMATION FOR SEQ ID NO: 102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID2, SEQ ID52
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

TCTACCTCTA CCTCTTTC

18

(2) INFORMATION FOR SEQ ID NO: 103:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID3, SEQ ID53
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

CTTCCCCATAC CTCTGATAC

19

(2) INFORMATION FOR SEQ ID NO: 104:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID4, SEQ ID54
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

TTCAACAGTG AAGCCATC

18

(2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID5, SEQ ID55
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

TGATGTGTGT GACTCAGG

18

(2) INFORMATION FOR SEQ ID NO: 106:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID6, SEQ ID56
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATAGAGGAAC CAAACCTG

18

(2) INFORMATION FOR SEQ ID NO: 107:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID7, SEQ ID57

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(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

AGCAGCATGG AAGCAAAC

18

(2) INFORMATION FOR SEQ ID NO: 108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID8, SEQ ID58
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

CTGATGAAAG TGGCTCTC

18

(2) INFORMATION FOR SEQ ID NO: 109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID9, SEQ ID59
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

TGTATCTGAG GTCTAAAAC

19

(2) INFORMATION FOR SEQ ID NO: 110:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID10, SEQ ID60
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

TATATGTTAGA GGGTGAGG

18

(2) INFORMATION FOR SEQ ID NO: 111:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID11, SEQ ID61
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

AGGCTAAGAA AAAAAGAGG

19

(2) INFORMATION FOR SEQ ID NO: 112:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID12, SEQ ID62
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

TGAAAAGACT AAGTTCTGG

19

(2) INFORMATION FOR SEQ ID NO: 113:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID13, SEQ ID63
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATGCTAGAGG AAAGGAAC

18

(2) INFORMATION FOR SEQ ID NO: 114:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID14, SEQ ID64
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

ATACCAGGGA CTTTAGTG

18

(2) INFORMATION FOR SEQ ID NO: 115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID15, SEQ ID65
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

AGATTCAAGAC CAATTCAC

19

(2) INFORMATION FOR SEQ ID NO: 116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID16, SEQ ID66
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

TGCTTGATT TGACCCCTG

18

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID17, SEQ ID67
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

GCCTATCTTG TTTTGACTG

19

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID18, SEQ ID68
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

TTCAGAGCAA CAATTTGG

19

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID19, SEQ ID69
- (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

CCAAGTTTAT GAGATTAGAG

20

(2) INFORMATION FOR SEQ ID NO: 120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID20, SEQ ID70
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CTAACCTAGA TGATCTTCC

19

(2) INFORMATION FOR SEQ ID NO: 121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID21, SEQ ID71
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

TGTCCAAGT TTAGTTCC

18

(2) INFORMATION FOR SEQ ID NO: 122:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID22, SEQ ID72
 - (B) LOCATION: 1..21
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

CCAGGAATAA TACCTTGAT C

21

(2) INFORMATION FOR SEQ ID NO: 123:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID23, SEQ ID73
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CTCAGTTTT CTTTCCACC

19

(2) INFORMATION FOR SEQ ID NO: 124:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID24, SEQ ID74
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

GACTCAGGCA CAACTTTAG

20

(2) INFORMATION FOR SEQ ID NO: 125:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID25, SEQ ID75
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

TACAGCAATG GTATAAAGC

19

(2) INFORMATION FOR SEQ ID NO: 126:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID26, SEQ ID76

(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

TTATCCATCA TTTAGAAGGC

20

(2) INFORMATION FOR SEQ ID NO: 127:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID27, SEQ ID77
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CACTGGAGAT AGCTGAAC

18

(2) INFORMATION FOR SEQ ID NO: 128:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID28, SEQ ID78
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:

GTACTGTCAA ATCATCAC

19

(2) INFORMATION FOR SEQ ID NO: 129:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID29, SEQ ID79
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

CGGGCATAAA AATGCAGG

18

(2) INFORMATION FOR SEQ ID NO: 130:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID30, SEQ ID80
 - (B) LOCATION: 1..20
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

GTATATGTGA AGGTTGTGGG

20

(2) INFORMATION FOR SEQ ID NO: 131:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID31, SEQ ID81
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

GTAAGATGTG ACTTGCTCC

19

(2) INFORMATION FOR SEQ ID NO: 132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID32, SEQ ID82
- (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

CCAGCTTGAA TTTTGGTGAG

20

(2) INFORMATION FOR SEQ ID NO: 133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID33, SEQ ID83
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

GCATATCTTG GTGGTCTG

18

(2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID34, SEQ ID84
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

AGGGTTCAAA GGAAGGAGG

19

(2) INFORMATION FOR SEQ ID NO: 135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID35, SEQ ID85
- (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

GAAAAAAGAAG GGAAAGAAAG

20

(2) INFORMATION FOR SEQ ID NO: 136:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID36, SEQ ID86
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

GTTTGTCCTTG GCTATTAAG

19

(2) INFORMATION FOR SEQ ID NO: 137:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID37, SEQ ID87
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

TGAAAAAGTG GGTAGCAG

18

(2) INFORMATION FOR SEQ ID NO: 138:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID38, SEQ ID88
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

ATATCAGGGC AGGCACAAAG

19

(2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID39, SEQ ID89
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

GGAAGAGGGC AACTTTAC

18

(2) INFORMATION FOR SEQ ID NO: 140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID40, SEQ ID90
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

TGAAATGGGC TGTAGATG

18

(2) INFORMATION FOR SEQ ID NO: 141:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID41, SEQ ID91
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

TTAACACCTTG GCTTCCTG

18

(2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: upstream amplification primer for SEQ ID42, SEQ ID92
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

TTC AACCTT TGTCGCTG

18

(2) INFORMATION FOR SEQ ID NO: 143:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID43, SEQ ID93
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

ATGTAACAGA TGTCCAAAG

19

(2) INFORMATION FOR SEQ ID NO: 144:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID44, SEQ ID94
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

CTAAGGGTCT TCTTTCTG

18

(2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: upstream amplification primer for SEQ ID45, SEQ ID95

(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

GGTGTATTTA GGTTTGTGG

19

(2) INFORMATION FOR SEQ ID NO: 146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID46, SEQ ID96
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

CTACCATCAC TTTCCTCC

18

(2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID47, SEQ ID97
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

ATAACTAGGC ATCCAGAC

18

(2) INFORMATION FOR SEQ ID NO: 148:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID48, SEQ ID98
- (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

CGACATAATT TGGTATGTAG

20

(2) INFORMATION FOR SEQ ID NO: 149:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: upstream amplification primer for SEQ ID49, SEQ ID99
- (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

TCACCAAGTG TCATCGTC

18

(2) INFORMATION FOR SEQ ID NO: 150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID100 (A) NAME/KEY: upstream amplification primer for SEQ ID50, SEQ
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:

GAGACTTTGT AACTTTGTG

19

(2) INFORMATION FOR SEQ ID NO: 151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
-
- (B) TYPE: NUCLEIC ACID
-
- (C) STRANDEDNESS: SINGLE
-
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID51 (A) NAME/KEY: downstream amplification primer for SEQ ID1, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:

GTCTTCATAA GTCTTCAGTG

20

(2) INFORMATION FOR SEQ ID NO: 152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
-
- (B) TYPE: NUCLEIC ACID
-
- (C) STRANDEDNESS: SINGLE
-
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID52 (A) NAME/KEY: downstream amplification primer for SEQ ID2, SEQ

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:

CAAAACACTC CCTCACAC

18

(2) INFORMATION FOR SEQ ID NO: 153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID53 (A) NAME/KEY: downstream amplification primer for SEQ ID3, SEQ
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:

CAGGTGATGT CTGGATAC

18

(2) INFORMATION FOR SEQ ID NO: 154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID54 (A) NAME/KEY: downstream amplification primer for SEQ ID4, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:

AAGACAACAA GAACTAAATC C

21

(2) INFORMATION FOR SEQ ID NO: 155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID55 (A) NAME/KEY: downstream amplification primer for SEQ ID5, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:

TCCCCAATAG ATTAAAGTTC

20

(2) INFORMATION FOR SEQ ID NO: 156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID56 (A) NAME/KEY: downstream amplification primer for SEQ ID6, SEQ
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:

CTGAGCATCA AATAGGAG

18

(2) INFORMATION FOR SEQ ID NO: 157:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID

09463025 09474810

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID57 (A) NAME/KEY: downstream amplification primer for SEQ ID7, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:

TCATTACAGA AAAAGCCAAA G

21

(2) INFORMATION FOR SEQ ID NO: 158:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID58 (A) NAME/KEY: downstream amplification primer for SEQ ID8, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:

TCCTTCTCCA CCTAAAATTC

20

(2) INFORMATION FOR SEQ ID NO: 159:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:
ID59 (A) NAME/KEY: downstream amplification primer for SEQ ID9, SEQ
(B) LOCATION: 1..18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:

ACTGCTTCTG CTCTCTTG

18

(2) INFORMATION FOR SEQ ID NO: 160:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
(ii) MOLECULE TYPE: DNA
(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
(ix) FEATURE:
ID60 (A) NAME/KEY: downstream amplification primer for SEQ ID10, SEQ
(B) LOCATION: 1..20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:

TGAACATACA AAAACACTGG

20

(2) INFORMATION FOR SEQ ID NO: 161:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
(ii) MOLECULE TYPE: DNA
(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
(ix) FEATURE:
ID61 (A) NAME/KEY: downstream amplification primer for SEQ ID11, SEQ
(B) LOCATION: 1..18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:

AGAGTTGTTG GCATGTAG

18

(2) INFORMATION FOR SEQ ID NO: 162:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
 - (ii) MOLECULE TYPE: DNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (ix) FEATURE:
 - (A) NAME/KEY: downstream amplification primer for SEQ ID12, SEQ
 - (B) LOCATION: 1..18
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:

ID62

AACTGCTCAG CAACTGTG

18

(2) INFORMATION FOR SEQ ID NO: 163:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 21 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

 - (A) ORGANISM: Homo sapiens

(ix) FEATURE:

 - (A) NAME/KEY: downstream amplification primer for SEQ ID13, SEQ ID63
 - (B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:

TTAGAACACT TTTATGGGAA C

21

(2) INFORMATION FOR SEQ ID NO: 164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

- ID64
- (A) NAME/KEY: downstream amplification primer for SEQ ID14, SEQ
ID64
 - (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:

GTCCTAGAAC GAGCAAATG

19

(2) INFORMATION FOR SEQ ID NO: 165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

- ID65
- (A) NAME/KEY: downstream amplification primer for SEQ ID15, SEQ
ID65
 - (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:

AGAGAAAGAA CCAGAGCC

18

(2) INFORMATION FOR SEQ ID NO: 166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

ID66

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: downstream amplification primer for SEQ ID16, SEQ
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 166:

TGGAGTCTAA ACTAGGTG

18

(2) INFORMATION FOR SEQ ID NO: 167:

ID67

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: downstream amplification primer for SEQ ID17, SEQ
 - (B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:

GGACCTTTA AGAGTGTG

18

(2) INFORMATION FOR SEQ ID NO: 168:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:

ID68 (A) NAME/KEY: downstream amplification primer for SEQ ID18, SEQ

(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:

TGGTTTCTTC AAACAAGAG

19

(2) INFORMATION FOR SEQ ID NO: 169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID69 (A) NAME/KEY: downstream amplification primer for SEQ ID19, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:

AAGTTGGATA ACCTTCTTT G

21

(2) INFORMATION FOR SEQ ID NO: 170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID70 (A) NAME/KEY: downstream amplification primer for SEQ ID20, SEQ
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:

TAGTTTCGTG AACTTATCC

19

(2) INFORMATION FOR SEQ ID NO: 171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID71
 - (A) NAME/KEY: downstream amplification primer for SEQ ID21, SEQ
ID71
 - (B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

GTTTACATTA TGCCCCTTTT C

21

(2) INFORMATION FOR SEQ ID NO: 172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID72
 - (A) NAME/KEY: downstream amplification primer for SEQ ID22, SEQ
ID72
 - (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

CTCCACTGCC ACAACTTC

18

(2) INFORMATION FOR SEQ ID NO: 173:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

ID73 (A) NAME/KEY: downstream amplification primer for SEQ ID23, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

TGCTCTGCTT GTAATGTTAT G

21

(2) INFORMATION FOR SEQ ID NO: 174:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

ID74 (A) NAME/KEY: downstream amplification primer for SEQ ID24, SEQ
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:

CAAGGTTGCC AGTCACATC

19

(2) INFORMATION FOR SEQ ID NO: 175:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
ID75 (A) NAME/KEY: downstream amplification primer for SEQ ID25, SEQ
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:

ATGAAGATAAC GCAGCCAG

18

(2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
ID76 (A) NAME/KEY: downstream amplification primer for SEQ ID26, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 176:

CTCATTTAAC TCCCATTCCCT C

21

(2) INFORMATION FOR SEQ ID NO: 177:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
ID77 (A) NAME/KEY: downstream amplification primer for SEQ ID27, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:

TGCTTTCTT GTCCCTGATT G

21

(2) INFORMATION FOR SEQ ID NO: 178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID78

- (A) NAME/KEY: downstream amplification primer for SEQ ID28, SEQ
ID78
- (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:

GCATTGAATC CGTAAATTTC

20

(2) INFORMATION FOR SEQ ID NO: 179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID79

- (A) NAME/KEY: downstream amplification primer for SEQ ID29, SEQ
ID79
- (B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:

CAGTTTGTT CATTGTGGGA G

21

(2) INFORMATION FOR SEQ ID NO: 180:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
 - (ii) MOLECULE TYPE: DNA
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (ix) FEATURE:
 - (A) NAME/KEY: downstream amplification primer for SEQ ID30, SEQ
 - (B) LOCATION: 1..21
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:

AAATCCAAC T ATGTCACTTC C

21

(2) INFORMATION FOR SEQ ID NO: 181:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

 - (A) ORGANISM: Homo sapiens

(ix) FEATURE:

 - (A) NAME/KEY: downstream amplification primer for SEQ ID31, SEQ
 - (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:

AATGTCCCCCT CCTCCTCTG

19

(2) INFORMATION FOR SEQ ID NO: 182:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 20 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID82 (A) NAME/KEY: downstream amplification primer for SEQ ID32, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:

GCCACAAGTA TTTGGGTGCC

20

(2) INFORMATION FOR SEQ ID NO: 183:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID83 (A) NAME/KEY: downstream amplification primer for SEQ ID33, SEQ
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:

CCTACGGTTT GTCATAAAG

19

(2) INFORMATION FOR SEQ ID NO: 184:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

- (ix) FEATURE:
ID84 (A) NAME/KEY: downstream amplification primer for SEQ ID34, SEQ
(B) LOCATION: 1..21
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

TGTAAACAGGG GACATGGGAA G

21

(2) INFORMATION FOR SEQ ID NO: 185:

- ID85 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID35, SEQ
(B) LOCATION: 1..20
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

CAATTTGTA TGGATGACAG

20

(2) INFORMATION FOR SEQ ID NO: 186:

- ID86 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID36, SEQ
(B) LOCATION: 1..21
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

TGGTGGTGGA AAAAAAGAAG G

21

(2) INFORMATION FOR SEQ ID NO: 187:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens(ix) FEATURE:
ID87
(A) NAME/KEY: downstream amplification primer for SEQ ID37, SEQ

(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

CTATAACTCT TATCAGTGAA C

21

(2) INFORMATION FOR SEQ ID NO: 188:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens(ix) FEATURE:
ID88
(A) NAME/KEY: downstream amplification primer for SEQ ID38, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 188:

AGGTCACTCA AGTATTATGG

20

(2) INFORMATION FOR SEQ ID NO: 189:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID39, SEQ
ID89
(B) LOCATION: 1..21
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

CCCCAGCTCC CAAATAATGA C

21

(2) INFORMATION FOR SEQ ID NO: 190:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID40, SEQ
ID90
(B) LOCATION: 1..20
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

TCCACAAACAG ACACTTAAAC

20

(2) INFORMATION FOR SEQ ID NO: 191:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA

ID91

- (vi) ORIGINAL SOURCE:
(A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID41, SEQ
(B) LOCATION: 1..18
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

TCTCTTCCCC CATCTCTC

18

(2) INFORMATION FOR SEQ ID NO: 192:

ID92

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID42, SEQ
(B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

TCCCCTTCTA TTGTCTACC

19

(2) INFORMATION FOR SEQ ID NO: 193:

ID93

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID43, SEQ

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 193:

GGTTTGTGTT CAGTACGG

18

(2) INFORMATION FOR SEQ ID NO: 194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID94 (A) NAME/KEY: downstream amplification primer for SEQ ID44, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 194:

TGTATATGCC TGGTGGAAAT G

21

(2) INFORMATION FOR SEQ ID NO: 195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID95 (A) NAME/KEY: downstream amplification primer for SEQ ID45, SEQ
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GTGAAAGAAA CTTGATAGAG G

21

(2) INFORMATION FOR SEQ ID NO: 196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID96 (A) NAME/KEY: downstream amplification primer for SEQ ID46, SEQ
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

CCTCCAACAG TAAGAAC

18

(2) INFORMATION FOR SEQ ID NO: 197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID97 (A) NAME/KEY: downstream amplification primer for SEQ ID47, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

CAGAACCAATT AACTATTAC

20

(2) INFORMATION FOR SEQ ID NO: 198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID

109

- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID98 (A) NAME/KEY: downstream amplification primer for SEQ ID48, SEQ
(B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GCCATTTGGA ATTTTGATAG

20

(2) INFORMATION FOR SEQ ID NO: 199:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID99 (A) NAME/KEY: downstream amplification primer for SEQ ID49, SEQ
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

TGCAGCATCC CTGGAAGTC

19

(2) INFORMATION FOR SEQ ID NO: 200:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: downstream amplification primer for SEQ ID50, SEQ
ID100
(B) LOCATION: 1..21

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GAGACATCAT ATCTGTGTTT G

21

(2) INFORMATION FOR SEQ ID NO: 201:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2103-270.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:

GATTCATATG AGACAGCTA

19

(2) INFORMATION FOR SEQ ID NO: 202:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2228-301.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:

CCCTGCTTAT CCCTGTAAGG TGG

23

(2) INFORMATION FOR SEQ ID NO: 203:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2229-240.mis1
(B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:

TCGTCATCGT GGCCTGGGCT ACA

23

(2) INFORMATION FOR SEQ ID NO: 204:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2240-281.mis1
(B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:

TCTTAATAAC TTTTTATTT

19

(2) INFORMATION FOR SEQ ID NO: 205:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2242-206.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:

TTTCTTTAG TCAAATTAT

19

(2) INFORMATION FOR SEQ ID NO: 206:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2244-83.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:

TAATTGTAGA TACTAAGACC ATT

23

(2) INFORMATION FOR SEQ ID NO: 207:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2246-340.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:

ATTTATATGT TAAATGCAGA GAA

23

(2) INFORMATION FOR SEQ ID NO: 208:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2248-76.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:

GAGAGGGAAG GTAATCTTC

19

(2) INFORMATION FOR SEQ ID NO: 209:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2250-236.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:

TTTATCCAA AACAGAATT ACA

23

(2) INFORMATION FOR SEQ ID NO: 210:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2251-151.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:

TGAAAAGAAG TTCAGACGAT TGC

23

(2) INFORMATION FOR SEQ ID NO: 211:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2269-179.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:

AAAATAAAGA AATTCCCTAGA GAC

23

(2) INFORMATION FOR SEQ ID NO: 212:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2271-403.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:

AGGCATTTAT TTCATATTAA TTA

23

(2) INFORMATION FOR SEQ ID NO: 213:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2272-409.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:

AAAAGCACTG CAATTATTTT GGA

23

(2) INFORMATION FOR SEQ ID NO: 214:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2273-528.mis1
 - (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GAAGATAAGA AAATCAAGG

19

(2) INFORMATION FOR SEQ ID NO: 215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2275-466.mis1
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

TGATAGCATT AAATACTCC

19

(2) INFORMATION FOR SEQ ID NO: 216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2278-276.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GAAAAAAATG GGAACATCTT CAC

23

(2) INFORMATION FOR SEQ ID NO: 217:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2312-358.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

TTTTAGAGAG AGATGGAAAA AAA

23

(2) INFORMATION FOR SEQ ID NO: 218:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2315-213.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

AGATGGATTC TACCCACAGG CAA

23

(2) INFORMATION FOR SEQ ID NO: 219:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2320-292.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

TCATTCACTA AACTTCAAC

19

(2) INFORMATION FOR SEQ ID NO: 220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2321-82.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GCTTACTGAG TGTCCACTC

19

(2) INFORMATION FOR SEQ ID NO: 221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2324-338.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

AGAAGACAAA ATCGCAGGA

19

(2) INFORMATION FOR SEQ ID NO: 222:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2333-423.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GAGACGCTAT CTATGCAAGG AGG

23

(2) INFORMATION FOR SEQ ID NO: 223:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2341-485.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

TTTTATCTGT CTGTTACCTA CAC

23

(2) INFORMATION FOR SEQ ID NO: 224:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID

120

- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2342-217.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

TTTGCCCTTG GACTTCATG ACA

23

(2) INFORMATION FOR SEQ ID NO: 225:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2362-270.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

TCTCTCTTGG GTGGTTCCCTC AAC

23

(2) INFORMATION FOR SEQ ID NO: 226:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2364-329.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

AAAATGATGA ACCATATAAC

19

(2) INFORMATION FOR SEQ ID NO: 227:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2367-61.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

TAAACATTTC ATTATTCAG AAA

23

(2) INFORMATION FOR SEQ ID NO: 228:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2371-93.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

TTTTAAACTT TCCTAATACT TAC

23

(2) INFORMATION FOR SEQ ID NO: 229:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2378-200.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:

GAGAACTTCC TGTTAACCT GTT

23

(2) INFORMATION FOR SEQ ID NO: 230:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2381-394.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:

AGTGGTCTTC AGGTTATTGG TAG

23

(2) INFORMATION FOR SEQ ID NO: 231:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2413-368.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:

ATTTTAAGAG GAAAACTTAA TGG

23

(2) INFORMATION FOR SEQ ID NO: 232:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2419-285.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:

GATCAAGCAG TGCCCACTC

19

(2) INFORMATION FOR SEQ ID NO: 233:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2559-253.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

CAGGTGTTT CATGCCCTCT TAG

23

(2) INFORMATION FOR SEQ ID NO: 234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2566-112.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GCCTTCACAA CGCGAGAGGC AAG

23

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2567-329.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

CACTGTCAGA TATGAAATGA TGC

23

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2570-218.mis1
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

AGTTCCAAAT TATGAGAAG

19

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2571-242.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

ATAATGAATG AGTATTGAT ATT

23

(2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2610-121.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

TTTTCCCTTC CCTAGGTATG GCT

23

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2615-83.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

TTTTAAATCAC AAGTTGGCAA AAG

23

(2) INFORMATION FOR SEQ ID NO: 240:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2620-227.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

09463025-B44400

TTGACTGGGC TCCTGATGTG TCC

23

(2) INFORMATION FOR SEQ ID NO: 241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2624-407.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:

ATCTGGCCAT AGGCAGAACCA TTG

23

(2) INFORMATION FOR SEQ ID NO: 242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2625-70.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:

AGTGACTCAA CCAGAAAGAG AGC

23

(2) INFORMATION FOR SEQ ID NO: 243:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2630-67.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:

TAAATTCTGC CTAGAAGATT AAG

23

(2) INFORMATION FOR SEQ ID NO: 244:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2633-129.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:

TTTTTATTC TTCCCCAGG CAA

23

(2) INFORMATION FOR SEQ ID NO: 245:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

129

(A) NAME/KEY: potential microsequencing oligo 99-2634-341.misl
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:

CGAATCAATA TTTATTTATT ATC

23

(2) INFORMATION FOR SEQ ID NO: 246:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2637-28.misl
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:

CCATCACTTC CTCCTACTGA AAA

23

(2) INFORMATION FOR SEQ ID NO: 247:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2642-255.misl
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:

TGAGGGTGTT TCCAGAAGAG ACT

23

(2) INFORMATION FOR SEQ ID NO: 248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2645-118.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:

CACAAATTAA TTGCATTGTT ATA

23

(2) INFORMATION FOR SEQ ID NO: 249:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2647-368.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:

TTAAGGCCTT CAACTGATTA GAC

23

(2) INFORMATION FOR SEQ ID NO: 250:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2649-107.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:

ACTCTUGAGC CTTTTATGA

19

(2) INFORMATION FOR SEQ ID NO: 251:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2103-270.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:

AGTGTAGAAA AATTGAAGGT CTG

23

(2) INFORMATION FOR SEQ ID NO: 252:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2228-301.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:

GGCCTTGCCC ATATGGGTC

19

(2) INFORMATION FOR SEQ ID NO: 253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2229-240.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

AAGGACTGGA ACAGGTAGT

19

(2) INFORMATION FOR SEQ ID NO: 254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2240-281.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

AGAAAAAAAAA GATTCAATT ACT

23

(2) INFORMATION FOR SEQ ID NO: 255:

DOCUMENT NUMBER: 094536075

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2242-206.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

CTTAAGAAAA AAGTAAATA TAA

23

(2) INFORMATION FOR SEQ ID NO: 256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2244-83.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

TACCTACATG GTTTAAGCA

19

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2246-340.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

TGCAAAACTT ATTTTTCTT

19

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2248-76.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

CCAGGGGATG GGCAGACTTC AGG

23

(2) INFORMATION FOR SEQ ID NO: 259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2250-236.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

AATAAAAATA AAAAACCCAA AGT

23

(2) INFORMATION FOR SEQ ID NO: 260:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2251-151.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

TTTTACAGCC AAACTAGTCT ATC

23

(2) INFORMATION FOR SEQ ID NO: 261:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2269-179.mis2
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

TTGATCTTGA TAGGCTGTA

19

(2) INFORMATION FOR SEQ ID NO: 262:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2271-403.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GAAGATAAGA AAATCAAGG

19

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2272-409.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

TTTTACTTGC AATATTCAC AGT

23

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2273-528.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

AGGCATTTAT TTCATATTTA TTA

2.3

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: potential microsequencing oligo 99-2275-466.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

TAGTATCCCT ATTACAGTT TTT

2.3

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2278-276.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

TTGTTGGAGA TGCACAGGC

19

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2312-358.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:

GGCCATTAC CCAGAAGGCC TAC

23

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2315-213.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:

TTTTTTTAA AATAAGGTTT TCT

23

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2320-292.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:

AAATTCAATTA AATTTATAAA AAC

23

(2) INFORMATION FOR SEQ ID NO: 270:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2321-82.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:

AGGAAATATT TGAGTAGGTA TCC

23

(2) INFORMATION FOR SEQ ID NO: 271:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2324-338.mis2
 - (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:

TTTTTACTGT TGAGGGATT CTT

23

(2) INFORMATION FOR SEQ ID NO: 272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2333-423.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:

TTTGCTGTC CAAATGTTGA ACA

23

(2) INFORMATION FOR SEQ ID NO: 273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2341-485.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:

AGAGCCTGTG CGATTCTTG TAA

23

(2) INFORMATION FOR SEQ ID NO: 274:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2342-217.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:

CACAAATCTGG GCTGTTCTA GAA

23

(2) INFORMATION FOR SEQ ID NO: 275:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2362-270.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:

TTTTACTTGG TCAAGGTAC ACA

23

(2) INFORMATION FOR SEQ ID NO: 276:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2364-329.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:

CAATTATATG TTACCTTGCC TCA

2.3

(2) INFORMATION FOR SEQ ID NO: 277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2367-61.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:

TTTTTTGGTG AAAATGCATA TTA

2.3

(2) INFORMATION FOR SEQ ID NO: 278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2371-93.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:

ATTATGTAAA AAGTAGGCAG TGA

23

(2) INFORMATION FOR SEQ ID NO: 279:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2378-200.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:

GGACGACAGG ACAGTTCTA

19

(2) INFORMATION FOR SEQ ID NO: 280:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2381-394.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:

TTTAGCTCCC CTACTTTC

19

(2) INFORMATION FOR SEQ ID NO: 281:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2413-368.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:

AAATATTATG TACAATTCT

19

(2) INFORMATION FOR SEQ ID NO: 282:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2419-285.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:

AGTCACAGCT CCCTGGAGGG TGG

23

(2) INFORMATION FOR SEQ ID NO: 283:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2559-253.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:

GATGGATGAT GTGACACAC

19

(2) INFORMATION FOR SEQ ID NO: 284:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2566-112.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:

AGGGTGGCCA AGCTCCTTC

19

(2) INFORMATION FOR SEQ ID NO: 285:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2567-329.mis2
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:

TATAGCCCAA AGAAAGCCA

19

(2) INFORMATION FOR SEQ ID NO: 286:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2570-218.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:

AACTTAGCCA CTTCAGAGGC CTC

23

(2) INFORMATION FOR SEQ ID NO: 287:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2571-242.mis2
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:

GCTGACACAT TTAATTATA

19

(2) INFORMATION FOR SEQ ID NO: 288:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2610-121.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:

GAGAATTTC TAAGTGCAGC ATA

23

(2) INFORMATION FOR SEQ ID NO: 289:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2615-83.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:

TTCCCAAGAAG ATGAGAATT GCT

23

(2) INFORMATION FOR SEQ ID NO: 290:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2620-227.mis2
 - (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:

TTTTAACAGC CAGCAAGATA CCC

23

(2) INFORMATION FOR SEQ ID NO: 291:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2624-407.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:

TTTTCTCTTT CCCCATCTCT CCC

23

(2) INFORMATION FOR SEQ ID NO: 292:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-2625-70.mis2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 292:

TTTTCTCTCT TCKTCCTCTC TCC

23

(2) INFORMATION FOR SEQ ID NO: 293:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-2630-67.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:

TTTTACTCCC TGTCTGGAC CAA

23

(2) INFORMATION FOR SEQ ID NO: 294:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: *Homo sapiens*
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-2633-129.mis2
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:

TCAGGGTTC TCTCATTGTC TAC

23

(2) INFORMATION FOR SEQ ID NO: 295:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2634-341.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:

TTTTTAAATA ATGTCTCACC TGT

23

(2) INFORMATION FOR SEQ ID NO: 296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2637-28.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:

TTTTAAACCC CACCCTCCTT TGA

23

(2) INFORMATION FOR SEQ ID NO: 297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2642-255.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:

TCACATTGAGA TTCAAATGC

19

(2) INFORMATION FOR SEQ ID NO: 298:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2645-118.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:

TTTCAGATT CTTCATTGCT AGC

23

(2) INFORMATION FOR SEQ ID NO: 299:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2647-368.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:

AGATAATGTG AGTGGGCCT

19

(2) INFORMATION FOR SEQ ID NO: 300:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID

(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-2649-107.mis;2
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:

AGTTTCAGTG CATTGCTGTC CTG

23

(2) INFORMATION FOR SEQ ID NO: 301:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: polymorphic fragment 99-344
(B) LOCATION: 1..47

(ix) FEATURE:

(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base a

(ix) FEATURE:

(A) NAME/KEY: Potential microsequencing oligo 99-344-mis1
(B) LOCATION: 1..23

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-344-mis2
(B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:

TGCTGCCAAG GATCCATGTC AGCATGCTCC TCTCTGAGCC CTGGTCT

47

(2) INFORMATION FOR SEQ ID NO: 302:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-366
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base t
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-366-mis1
 - (B) LOCATION: 5..23
- (ix) FEATURE:
 - (A) NAME/KEY: Potential microsequencing oligo 99-366-mis2
 - (B) LOCATION: complement 25..47
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:

ACGGGCCTGGC TTCAGGGACA CCTTAGGAAA TGTTGTTGA GTTAGTC

47

(2) INFORMATION FOR SEQ ID NO: 303:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic fragment 99-359
 - (B) LOCATION: 1..47
- (ix) FEATURE:
 - (A) NAME/KEY: polymorphic base
 - (B) LOCATION: 24
 - (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-359-mis1
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-359-mis2
- (B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:

CTACAGAGTC ATCCGCTCCA TCCGGTCTCA ACAAAATCCTG GCAGCTC

47

(2) INFORMATION FOR SEQ ID NO: 304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-355
- (B) LOCATION: 1..47

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-355-mis1
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-355-mis2
- (B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:

GGAGTTTCGG GGAGTTTCGG GAGGGTTCCCT GGGAAAGAAC TCCTCCC

47

(2) INFORMATION FOR SEQ ID NO: 305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 48 base pairs

- (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-365
(B) LOCATION: 1..48
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c
- (ix) FEATURE:
(A) NAME/KEY: microsequencing oligo 99-365-mis1
(B) LOCATION: 5..23
- (ix) FEATURE:
(A) NAME/KEY: Potential microsequencing oligo 99-365-mis2
(B) LOCATION: complement 25..48
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 305:

CCTACCAAGC AAGCAGCCCC AGCCTAGGGT CAGACAGGGT GAGCCTC

47

(2) INFORMATION FOR SEQ ID NO: 306:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens
- (ix) FEATURE:
(A) NAME/KEY: polymorphic fragment 99-2452
(B) LOCATION: 1..47
(D) OTHER INFORMATION: Extracted from sequence gb:M10065
(3909..3955)
- (ix) FEATURE:
(A) NAME/KEY: polymorphic base
(B) LOCATION: 24
(D) OTHER INFORMATION: base c

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2452-mis1
- (B) LOCATION: 5..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2452-mis2
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 306:

TGGGCGCGGA CATGGAGGAC CTGGCGGCC GCCTGGTGCA GTACCGC

47

(2) INFORMATION FOR SEQ ID NO: 307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-344
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID301

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base g; a in SEQ ID301

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-344-mis1
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-344-mis2
- (B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 307:

TGCTGCCAAG GATCCATGTC AGCGTGCTCC TCTCTGAGCC CTGGTCT

47

(2) INFORMATION FOR SEQ ID NO: 308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs

- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-366
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID302

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base c; t in SEQ ID302

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-366-mis1
- (B) LOCATION: 5..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-366-mis2
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 308:

ACGGGCCTGGC TTCAGGGACA GCTCAGGAAA TGTTTGTGA GTTAGTG

47

(2) INFORMATION FOR SEQ ID NO: 309:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 47 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-359
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID303

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a; g in SEQ ID303

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-359-mis1
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-359-mis2
- (B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 309:

CTACAGAGTC ATCGCCTCCA TCCAGTCCTCA ACAAAATCCTG GCAGCTC

47

(2) INFORMATION FOR SEQ ID NO: 310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-355
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID304

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base a; g in SEQ ID304

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-355-mis1
- (B) LOCATION: 1..23

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-355-mis2
- (B) LOCATION: complement 25..43

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 310:

GGAGTTTCGG GGAGTTTCGG GAGAGTTCTT GGGAAAGAAGC TCCTCCC

47

(2) INFORMATION FOR SEQ ID NO: 311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 48 base pairs

- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-365
- (B) LOCATION: 1..48
- (D) OTHER INFORMATION: variant version of SEQ ID305

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID305

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-365-mis1
- (B) LOCATION: 5..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-365-mis2
- (B) LOCATION: complement 25..48

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 311:

CCTACCAAGC AAGCAGCCCC AGCTTAGGGT CAGACAGGGT GAGCCTC

47

(2) INFORMATION FOR SEQ ID NO: 312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 47 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: polymorphic fragment 99-2452
- (B) LOCATION: 1..47
- (D) OTHER INFORMATION: variant version of SEQ ID306

(ix) FEATURE:

- (A) NAME/KEY: polymorphic base
- (B) LOCATION: 24
- (D) OTHER INFORMATION: base t; c in SEQ ID306

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-2452-mis1
- (B) LOCATION: 5..23

(ix) FEATURE:

- (A) NAME/KEY: Potential microsequencing oligo 99-2452-mis2
- (B) LOCATION: complement 25..47

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 312:

TGGGGCCCGGA CATGGAGGAC GTGTGCGGCC GCCTGGTCCA GTACCGGC

47

(2) INFORMATION FOR SEQ ID NO: 313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID307
- (A) NAME/KEY: upstream amplification primer for SEQ ID301 and SEQ
 - (B) LOCATION: 1..20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 313:

GCTCTCATAT TCATTGGGTG

20

(2) INFORMATION FOR SEQ ID NO: 314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID308
- (A) NAME/KEY: upstream amplification primer for SEQ ID302 and SEQ
 - (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 314:

TCTCTCCCGT GTTAATG

18

(2) INFORMATION FOR SEQ ID NO: 315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID309
- (A) NAME/KEY: upstream amplification primer for SEQ ID303 and SEQ ID309
 - (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 315:

AATCTTCTTG CTCCTGTC

18

(2) INFORMATION FOR SEQ ID NO: 316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- ID310
- (A) NAME/KEY: upstream amplification primer for SEQ ID304 and SEQ ID310
 - (B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 316:

AGGTTAGGGG TGTATTTC

18

(2) INFORMATION FOR SEQ ID NO: 317:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID311 (A) NAME/KEY: upstream amplification primer for SEQ ID305 and SEQ
(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 317:

AGACTGTGAC CTTAGACC

18

(2) INFORMATION FOR SEQ ID NO: 318:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 18 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Homo sapiens

(ix) FEATURE:

ID312 (A) NAME/KEY: upstream amplification primer for SEQ ID306 and SEQ
(B) LOCATION: 1..18
(D) OTHER INFORMATION: Extracted from sequence gb:M10065
(3791..3808)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 318:

GACGAGACCA TGAAGGAG

18

(2) INFORMATION FOR SEQ ID NO: 319:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19 base pairs

- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

SEQ ID307 (A) NAME/KEY: downstream amplification primer for SEQ ID301 and

(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 319:

TGGCTGCGGT TAGATGCTC

19

(2) INFORMATION FOR SEQ ID NO: 320:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

SEQ ID308 (A) NAME/KEY: downstream amplification primer for SEQ ID302 and

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 320:

AGGGGTAACT CTTGATTG

18

(2) INFORMATION FOR SEQ ID NO: 321:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 18 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

SEQ ID309 (A) NAME/KEY: downstream amplification primer for SEQ ID303 and

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 321:

ACCAAGCCAT AGCTTCTC

18

(2) INFORMATION FOR SEQ ID NO: 322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

SEQ ID310 (A) NAME/KEY: downstream amplification primer for SEQ ID304 and

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 322:

ATACAGCCAG GGAGATAG

18

(2) INFORMATION FOR SEQ ID NO: 323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

SEQ ID311 (A) NAME/KEY: downstream amplification primer for SEQ ID305 and

(B) LOCATION: 1..18

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 323:

AATTGCTACC CCCAATTC

18

(2) INFORMATION FOR SEQ ID NO: 324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

SEQ ID312
(A) NAME/KEY: downstream amplification primer for SEQ ID306 and
(B) LOCATION: 1..18
(D) OTHER INFORMATION: Extracted from sequence gb:M10065
(complement 4378..4395)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 324:

TCCAAACCAGC TCTTGAGG

18

(2) INFORMATION FOR SEQ ID NO: 325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-344.mis1
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 325:

TGCTGCCAAG GATCCATGTC AGC

23

(2) INFORMATION FOR SEQ ID NO: 326:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-366.mis1
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 326:

CCTGGCTTCA GGGACAGCT

19

(2) INFORMATION FOR SEQ ID NO: 327:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: potential microsequencing oligo 99-359.mis1
 - (B) LOCATION: 1..23
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 327:

CTACAGAGTC ATCGCCTCCA TCC

23

(2) INFORMATION FOR SEQ ID NO: 328:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: potential microsequencing oligo 99-355.mis1
(B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 328:

GGAGTTTCGG GGAGTTTCGG GAG

23

(2) INFORMATION FOR SEQ ID NO: 329:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-365.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 329:

CCAAGCAAGC AGCCCCAGC

19

(2) INFORMATION FOR SEQ ID NO: 330:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Homo sapiens

(ix) FEATURE:

(A) NAME/KEY: microsequencing oligo 99-2452.mis1
(B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 330:

CGCGGGACATG GAGGACGTG

19

(2) INFORMATION FOR SEQ ID NO: 331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: microsequencing oligo 99-344.mis2
- (B) LOCATION: 1..19

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 331:

CAGGGCTCAG AGAGGAGCA

19

(2) INFORMATION FOR SEQ ID NO: 332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: Homo sapiens

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-366.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 332:

CACTAACTCA ACAAACATTT CCT

23

(2) INFORMATION FOR SEQ ID NO: 333:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-359.mis2
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 333:

TGCCAGGATT TGTTGAGAC

19

(2) INFORMATION FOR SEQ ID NO: 334:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
- (ix) FEATURE:
 - (A) NAME/KEY: microsequencing oligo 99-355.mis2
 - (B) LOCATION: 1..19
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 334:

GGAGCTTCTT CCCAGGAAC

19

(2) INFORMATION FOR SEQ ID NO: 335:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: DNA
- (vi) ORIGINAL SOURCE:

(A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-365.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 335:

GAGGCTCACC CTGTCTGACC CTA

23

(2) INFORMATION FOR SEQ ID NO: 336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: NUCLEIC ACID
- (C) STRANDEDNESS: SINGLE
- (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: DNA

(vi) ORIGINAL SOURCE:

- (A) ORGANISM: *Homo sapiens*

(ix) FEATURE:

- (A) NAME/KEY: potential microsequencing oligo 99-2452.mis2
- (B) LOCATION: 1..23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 336:

GCGGTACTGC ACCAGGGCGGC CGC

23